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IN THE CLAIMS

1-4. (canceled).

5. (currently amended) A wireless radio terminal for transmitting and receiving packets over a wireless network, comprising:
a first access request signal generator for generating a first access request signal; and
a second access request signal generator for generating a second access request signal; and
wherein said first access request signal generator is adapted to transmit said first access request signal on a first channel, said first channel having a duration equal at least to the duration of said first access request signal plus a maximum timing uncertainty between unsynchronized terminals; and
wherein said second access request signal generator is adapted to transmit said second access request signal on a second channel within a second window having a duration less than the duration of said first window; and
wherein said second channel has a duration equal to an integer number of time slots, and said second channel is within the frequency range associated with traffic channels; and
~~A wireless network as in claim 4, wherein said second channel has a bandwidth less than one half of the bandwidth of said traffic channels.~~

6. (canceled).

7. (canceled).

8. (original) A wireless network having a plurality of broadband channels, a first contention channel having a duration equal at least to the duration of a RACH message plus a maximum timing uncertainty, and a second contention channel having a duration which is less than the duration of said first contention channel.

9. (original) A wireless network as in claim 8, wherein said first contention channel is within a control channel.

10. (original) A wireless network as in claim 8, wherein said second contention channel is within the frequency range associated with traffic channels.

11. (original) A wireless network as in claim 10, wherein said second contention channel has a bandwidth less than one half of the bandwidth of said traffic channels.

12. (original) A wireless network as in claim 10, wherein said second contention channel has a bandwidth less than one third of the bandwidth of said traffic channels.

13. (original) A wireless network as in claim 10, wherein said second contention channel has a bandwidth less than one fourth of the bandwidth of said traffic channels.

14. (canceled).

15. (currently amended) A method of transmitting access request signals in a wireless network, said method comprising the steps of:

receiving a beacon signal from said network identifying a time frame,
dividing a communication channel into a plurality of subchannels, said channel having a continuous range of frequencies,

transmitting a first electromagnetic signal in a first one of said plurality of subchannels during a first of a plurality of time slots, said first electromagnetic signal having a duration less than one of said time slots,

abstaining from transmitting electromagnetic signals on said first subchannel during at least a second of said plurality of time slots,

receiving timing correction information from said network,

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based on said timing correction information, transmitting a second electromagnetic signal in a second one of said plurality of subchannels during a third of said plurality of time slots, said second electromagnetic signal having a duration less than one of said time slots,

~~The method of claim 2, further comprising the steps of:~~

receiving traffic channel assignment data from said network, said traffic channel assignment containing data representing a particular time slot,

transmitting data during said particular time slot on a traffic channel comprising a continuous set of frequencies allocated to said subchannels.